

CONFIDENTIAL

Serial No. 10/047,438 (Atty Docket No. 1392/10/2/2/3)

Claim amendments agreed upon during teleconference of June 7, 2005:

3. ~~(Canceled) The method of claim 2, wherein incubating includes waiting for a first period of time which is less than a period of time allotted for reacting the first component with the second component using a non-nanoporous structure.~~

36. (New) The method of claim 2, wherein the incubating is for a time period less than that required for a reaction taking place in a non-nanoporous structure.

7. The method of claim 1 further comprising adjusting a kinetic characteristic parameter.

8. (Currently amended): The method of claim 7, wherein adjusting a kinetic characteristic parameter includes adjusting a temperature, adjusting a concentration, adjusting a time period, adjusting a pH, adjusting a volume, adjusting a pressure, adjusting a diffusion rate, adjusting a material characteristic property, adjusting an atmospheric humidity or adjusting a light exposure.

19. The method of claim 42, wherein producing the product includes producing an amplified nucleic acid fragment and wherein incubating includes applying a series of temperature changes suitable appropriate for sequence amplification.

34. The method of claim 1, wherein the pores have a diameter of ~~less than 1 μm~~ ranging from about 1 nm to about 1 μm .